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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Attorney Docket No. 72934 To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies) 1. Name of conveying party(ies): Name: NIPPON TELEGRAPH AND TELEPHONE **HIROJI MASUDA** CORPORATION **ATSUSHI MORI** Internal Address: **MAKOTO SHIMIZU** Additional name(s) of conveying party(ies) attached? □ Yes No Street Address: 3-1 Otemachi 2-Chome 3. Nature of conveyance: ■ Assignment □ Merger Chiyoda-ku City: Tokyo State: JAPAN ZIP: 100-8116 □ Security Agreement □ Change of Name Other_ Execution Date: May 30, 2002 Additional name(s) and address(es) attached? ☐ Yes ☑ No 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) 10/061,772 Additional numbers attached? □ Yes ☑ No 6. Total number of applications and patents involved: 1 Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41).....\$ 40.00 Name: Kenneth H. Samples FITCH, EVEN, TABIN & FLANNERY Enclosed Authorized to be charged to deposit account. Internal Address:____ (Trans. No. 15534). Street Address: Suite 1600 8. Deposit Account Number: 120 South LaSalle Street 06-1135 City: Chicago State: IL ZIP: 60603-3406 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Kenneth H. Samples 25,747 Name of Person Signing Registration No.

Total number of pages including cover sheet, attachments, and document:



ASSIGNMENT

I/We, 1) Hiroji MASUDA of Ibaraki, JAPAN, 2) Atsushi MORI AH Kanagawa of Ibaraki, JAPAN, 3) Makoto SHIMIZU of Ibaraki, JAPAN for good and valuable consideration have assigned and do hereby assign to ______NIPPON TELEGRAPH AND TELEPHONE CORPORATION, a __Japanese __ Corporation, with its principal place of business at 3-1 OTEMACHI 2-CHOME, CHIYODA-KU, TOKYO 100-8116, JAPAN, its successors, assigns, and legal representatives, all of my/our right, title and interest in and to all subject matter invented by me/us and disclosed in the application for Letters Patent of the United States Patent entitled

OPTICAL FIBER AMPLIFIER AND OPTICAL COMMUNICATION SYSTEM USING THE SAME

and signed by me/us on the date set forth below, and in and to all Letters Patent, and all Convention and Treaty rights of all kinds, in the United States, for all such subject matter. I/We agree to sign all documents necessary to secure all said Letters Patent and rights, and request issuance of said Letters Patent to the above Assignee in accordance with this Assignment.

May 30, 2002

May 30, 2002

(Hiroji MASUDA)

(Atsushi MORI)

May 30, 2002

Makoto SHIMIZU)